

NÄ°yazÄ° Bulut

List of Publications by Year in descending order

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85
papers

1,157
citations

394421

19
h-index

477307

29
g-index

85
all docs

85
docs citations

85
times ranked

795
citing authors

#	ARTICLE	IF	CITATIONS
1	A detailed quantum mechanical and quasiclassical trajectory study on the dynamics of the $H+H_2 \rightarrow H+H_2$ exchange reaction. <i>Journal of Chemical Physics</i> , 2006, 125, 094314.	3.0	70
2	$H_2(v=0,1) + C^2P \rightarrow H+CH$ STATE-TO-STATE RATE CONSTANTS FOR CHEMICAL PUMPING MODELS IN ASTROPHYSICAL MEDIA. <i>Astrophysical Journal</i> , 2013, 766, 80.	4.5	67
3	On the dynamics of the $H+D_2(v=0,j=0) \rightarrow HD+D$ reaction: A comparison between theory and experiment. <i>Journal of Chemical Physics</i> , 2008, 128, 014304.	3.0	57
4	Characterization of Mg-containing hydroxyapatites synthesized by combustion method. <i>Physica B: Condensed Matter</i> , 2018, 537, 63-67.	2.7	55
5	The dynamics of the $H+D_2$ reaction: a comparison of quantum mechanical wavepacket, quasi-classical and statistical-quasi-classical results. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1102-1115.	2.8	48
6	OH IN ASTROPHYSICAL MEDIA: STATE-TO-STATE FORMATION RATES, EINSTEIN COEFFICIENTS AND INELASTIC COLLISION RATES WITH He. <i>Astrophysical Journal</i> , 2014, 794, 33.	4.5	35
7	State-to-state chemistry and rotational excitation of CH^+ in photon-dominated regions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 612-620.	4.4	31
8	Effects of strontium - erbium co-doping on the structural properties of hydroxyapatite: An Experimental and theoretical study. <i>Ceramics International</i> , 2020, 46, 16354-16363.	4.8	31
9	Time-dependent wave packet and quasiclassical trajectory study of the $C(P_3)+OH \rightarrow CO(X^1\Sigma^+)+H(S_2)$ reaction at the state-to-state level. <i>Journal of Chemical Physics</i> , 2009, 130, 194303.	3.0	30
10	Electronic, optical, and spectroscopic analysis of TBADN organic semiconductor: Experiment and theory. <i>Chemical Physics Letters</i> , 2017, 678, 130-138.	2.6	30
11	Real wave packet and quasiclassical trajectory studies of the $H+LiH$ reaction. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 821-827.	2.8	29
12	Structural and optical characterization of Sm-doped ZnO nanoparticles. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	1.7	26
13	The effects of Ni-addition on the crystal structure, thermal properties and morphology of Mg-based hydroxyapatites synthesized by a wet chemical method. <i>Ceramics International</i> , 2018, 44, 14036-14043.	4.8	25
14	The effect of simulating body fluid on the structural properties of hydroxyapatite synthesized in the presence of citric acid. <i>Progress in Biomaterials</i> , 2016, 5, 173-182.	4.5	24
15	Quantum and quasi-classical calculations for the $S+H_2(v,j) \rightarrow SH(v',j') + H$ reactive collisions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11391-11400.	2.8	23
16	Wave packet and quasiclassical trajectory calculations for the $N(2D)+H_2$ reaction and its isotopic variants. <i>Chemical Physics</i> , 2007, 332, 119-131.	1.9	22
17	Accurate Time-Dependent Wave Packet Study of the $Li + H_2^+ \rightarrow LiH + H$ Reaction and Its Isotopic Variants. <i>Journal of Physical Chemistry A</i> , 2012, 116, 132-138.	2.5	22
18	Accurate time dependent wave packet calculations for the $N + OH$ reaction. <i>Journal of Chemical Physics</i> , 2011, 135, 104307.	3.0	21

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19	ACCURATE TIME-DEPENDENT WAVE PACKET STUDY OF THE $H^+ + LiH$ REACTION AT EARLY UNIVERSE CONDITIONS. <i>Astrophysical Journal</i> , 2012, 759, 31.	4.5	21
20	Accurate Time-Dependent Wave Packet Calculations for the $O^+ + H_2^+$ OH ⁺ + H Ion-Molecule Reaction. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11951-11962.	2.5	21
21	Formation of interstellar SH ⁺ from vibrationally excited H_2 : Quantum study of $S^+ + H_2^+$, SH ⁺ + H reaction and inelastic collision. <i>Astronomy and Astrophysics</i> , 2019, 626, A103.	5.1	21
22	Temperature dependent structural and vibrational properties of hydroxyapatite: A theoretical and experimental study. <i>Ceramics International</i> , 2017, 43, 15899-15904.	4.8	20
23	Quantum Mechanical Wave Packet and Quasiclassical Trajectory Calculations for the $Li + H_2^+$ Reaction. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14657-14663.	2.5	18
24	Quantum Effects on the $D + H_3^+$ H ₂ D ⁺ + H Deuteration Reaction and Isotopic Variants. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8766-8775.	2.5	18
25	Ce/Sm co-doped hydroxyapatites: synthesis, characterization, and band structure calculation. <i>Journal of the Australian Ceramic Society</i> , 2021, 57, 305-317.	1.9	18
26	Investigation of the effects of Pr doping on the structural properties of hydroxyapatite: an experimental and theoretical study. <i>Journal of the Australian Ceramic Society</i> , 2020, 56, 1501-1513.	1.9	17
27	Gas phase Elemental abundances in Molecular cloudS (GEMS). <i>Astronomy and Astrophysics</i> , 2021, 646, A5.	5.1	17
28	STATE-TO-STATE QUANTUM WAVE PACKET DYNAMICS OF THE $LiH + H$ REACTION ON TWO AB INITIO POTENTIAL ENERGY SURFACES. <i>Astrophysical Journal</i> , 2014, 784, 55.	4.5	16
29	Accurate quantum wave packet calculations for the $F + HCl \rightarrow Cl + HF$ reaction on the ground $12^+ A_1$ potential energy surface. <i>Journal of Chemical Physics</i> , 2012, 136, 104304.	3.0	15
30	The effects of Mn and/or Ni dopants on the in vitro/in vivo performance, structural and magnetic properties of β -tricalcium phosphate bioceramics. <i>Ceramics International</i> , 2019, 45, 22752-22758.	4.8	15
31	Theoretical and experimental characterization of Pr/Ce co-doped hydroxyapatites. <i>Journal of Molecular Structure</i> , 2021, 1240, 130557.	3.6	15
32	Halogen effect on spectroscopy, anticancer and molecular docking studies for platinum complexes. <i>Optik</i> , 2021, 244, 166324.	2.9	15
33	Nonreactive scattering of the $O^+ + H_2$: A time dependent wave packet approach. <i>Chemical Physics Letters</i> , 2012, 532, 22-26.	2.6	13
34	Quantum wave packet study of $S(1D) + HD$ reaction. <i>Computational and Theoretical Chemistry</i> , 2005, 723, 189-194.	1.5	12
35	The effects of urea content on the structural, thermal and morphological properties of MgO nanopowders. <i>Ceramics International</i> , 2018, 44, 14523-14527.	4.8	12
36	Structural, spectroscopic, dielectric, and magnetic properties of Fe/Cu co-doped hydroxyapatites prepared by a wet-chemical method. <i>Physica B: Condensed Matter</i> , 2022, 625, 413486.	2.7	12

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37	Quantum wave packet calculation of reaction probabilities, cross sections, and rate constants for the C(1D) + HD reaction. International Journal of Quantum Chemistry, 2005, 105, 478-484.	2.0	11
38	Hyperfine excitation of OH ⁺ by H. Monthly Notices of the Royal Astronomical Society, 2016, 461, 4477-4481.	4.4	11
39	Ab initio studies of the Rg ⁺ (X ¹ Σ ⁺) van der Waals complexes (Rg = He, Ne, Ar, Kr, and Xe). Journal of Chemical Physics, 2016, 144, 204303.	3.0	11
40	Experimental characterization and theoretical investigation of Ce/Yb co-doped hydroxyapatites. Materials Chemistry and Physics, 2022, 276, 125444.	4.0	11
41	An experimental and theoretical investigation of the structure of synthesized ZnO powder. Chemical Physics, 2018, 513, 273-279.	1.9	9
42	Hyperfine excitation of SH ⁺ by H. Astronomy and Astrophysics, 2020, 638, A72.	5.1	9
43	Influence of ro-vibrational and isotope effects on the dynamics of the C(³ P) + OD(X ²) ⁺ CO(X ¹ Σ ⁺) ⁺ D(² Σ ⁺) reaction. Molecular Physics, 2011, 109, 543-550.		
44	Exchange and Inelastic OH ⁺ + H Collisions on the Doublet and Quartet Electronic States. Journal of Physical Chemistry A, 2015, 119, 12082-12089.	2.5	8
45	Preparation and characterization of monetites co-doped with Ni/Al, Ni/Mn and Al/Mn. Materials Letters, 2017, 201, 39-42.	2.6	8
46	Theoretical and experimental characterization of Sn-based hydroxyapatites doped with Bi. Journal of the Australian Ceramic Society, 2022, 58, 803-815.	1.9	8
47	Quantum mechanical three-dimensional wavepacket study of the O(1D) + ClH ⁺ ClO + H reaction. Computational and Theoretical Chemistry, 2003, 625, 177-187.	1.5	7
48	Quantum wave packet study of N(2D) + H ₂ reactive scattering. International Journal of Quantum Chemistry, 2006, 106, 833-838.	2.0	7
49	Quantum mechanical calculations of state-to-state cross sections and rate constants for the F + DCl $\hat{\rightarrow}$ Cl + DF reaction. Journal of Chemical Physics, 2015, 142, 214310.	3.0	7
50	The experimental and theoretical investigation of Sm/Mg co-doped hydroxyapatites. Chemical Physics Letters, 2022, 800, 139677.	2.6	7
51	A quantum wave packet study of three-dimensional inelastic scattering: He ⁺ H ₂ . Molecular Physics, 2002, 100, 561-567.	1.7	6
52	The effect of initial rotation in the N(2D) + H ₂ ⁺ NH(3 ¹ Σ ⁺) + H reaction. Chemical Physics, 2014, 441, 53-58.	1.9	6
53	Effects of solvents on photonic and fluorescence properties of PtOEP phosphorescent material: Experimental and computational analysis. Journal of Molecular Liquids, 2020, 316, 113865.	4.9	6
54	Quantum wave packet study of S(1D) + D ₂ ⁺ SD + D reaction. Chemical Physics, 2005, 309, 231-237.	1.9	5

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55	The effects of gamma irradiation on dielectric properties of Ag/Gd co-doped hydroxyapatites. Journal of Materials Science: Materials in Electronics, 2019, 30, 10443-10453.	2.2	5
56	Investigation of the effects of Ni-doping on the structural and thermal properties of ZnAl ₂ O ₄ spinels prepared by wet chemical method. Journal of the Australian Ceramic Society, 2021, 57, 1155-1162.	1.9	5
57	NTCDA compounds of optoelectronic interest: Theoretical insights and experimental investigation. Chemical Physics Letters, 2021, 780, 138918.	2.6	5
58	Investigation of structural, spectroscopic, dielectric, magnetic, and in vitro biocompatibility properties of Sr/Ni co-doped hydroxyapatites. Ceramics International, 2022, 48, 26585-26607.	4.8	5
59	A quantum wave packet study of He-H ₂ inelastic scattering. International Journal of Quantum Chemistry, 2000, 79, 274-279.	2.0	4
60	Quantum wave packet study of $\langle \text{mml:math altimg="si4.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www. Chemical$	2.6	4
61	Comparison of experimental photonic and refractive index characteristics of the TBADN films with their theoretical counterparts. Chemical Physics Letters, 2018, 696, 12-18.	2.6	4
62	A new synthesis of limonene copolymer: experimental and theoretical analysis. Polymer Bulletin, 2019, 76, 3297-3327.	3.3	4
63	Antimicrobial Activity of Ga-Doped Hydroxyapatite Nanostructures: Synthesis, Morphological, Spectroscopic, and Dielectric Properties. Journal of Biomaterials and Tissue Engineering, 2019, 9, 881-889.	0.1	4
64	Reactive and inelastic scattering probabilities for the Cl+H ₂ scattering: time-dependent calculations. Computational and Theoretical Chemistry, 2004, 676, 185-192.	1.5	3
65	Experimental characterization and theoretical investigation of $\langle \text{mml:math altimg="si0006.svg" > \langle \text{mml:mrow} > \langle \text{mml:mi mathvariant="normal" > Zn </mml:mi > \langle \text{mml:mo} > / </mml:mo > \langle \text{mml:mi mathvariant="normal" > Sm </mml:mi > \langle \text{mml:mrow} > \langle \text{mml:math} > \text{ co-doped hydroxyapatites. Materials Today Communications, 2022, 31, 103850.}$	1.9	3
66	Time-dependent quantum study of three-dimensional inelastic scattering of $\text{I}^{\text{e}}\text{H}_2$. Computational and Theoretical Chemistry, 2002, 584, 149-157.	1.5	2
67	A quantum wavepacket study of three-dimensional $\text{Ne}^{\text{e}}\text{H}_2$ scattering. Molecular Physics, 2003, 101, 1901-1909.	1.7	2
68	Quantum wave packet study of the insertion reaction S+H ₂ . Computational and Theoretical Chemistry, 2004, 710, 127-132.	1.5	2
69	Thermal and structural characterization of the kidney stone. Journal of Thermal Analysis and Calorimetry, 2020, 139, 3843-3846.	3.6	2
70	Possible Formation and Destruction of the OD ⁺ Ions in the Interstellar Medium. Journal of Physical Chemistry A, 2020, 124, 6552-6561.	2.5	2
71	NO+ $\hat{\text{A}}\text{H}_2$: Potential energy surface and bound state calculations. Chemical Physics Letters, 2021, 771, 138511.	2.6	2
72	Green Synthesis, Structural, <i>In Vitro</i> and <i>In Vivo</i> Bioactivity Properties of ZnO Nanoparticles for Biomedical Applications. Journal of Biomaterials and Tissue Engineering, 2019, 9, 731-738.	0.1	2

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73	Structural and thermal properties of Zn-containing magnesium aluminate spinels obtained by wet chemical method. <i>Materials Science-Poland</i> , 2019, 37, 238-243.	1.0	2
74	The effects of Zn/Fe co-dopants on the structural, thermal, magnetic, and in vitro biocompatibility properties of calcium pyrophosphate ceramics. <i>Physica B: Condensed Matter</i> , 2022, 643, 414123.	2.7	2
75	TIME-DEPENDENT QUANTUM MECHANICAL TREATMENT OF Heâ€“CO INELASTIC SCATTERING. <i>Journal of Theoretical and Computational Chemistry</i> , 2004, 03, 291-303.	1.8	1
76	Existence of the transformation operator by the decomposition method. <i>Applicable Analysis</i> , 2005, 84, 713-719.	1.3	1
77	Time-Dependent Quantum Wave Packet Calculations of Three-Dimensional He âˆ“ O2 Inelastic Scattering. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 59-63.	5.3	1
78	Wave packet calculations on nonadiabatic effects for the O(3<i>P</i>)+HF(1Î£+) reaction under hyperthermal conditions. <i>Journal of Chemical Physics</i> , 2012, 137, 114309.	3.0	1
79	Synthesis and Characterization of Yttrium-Doped Hydroxyapatite Nanoparticles and Their Potential Antimicrobial Activity. <i>Journal of Biomaterials and Tissue Engineering</i> , 2021, 11, 2087-2096.	0.1	1
80	Variation with graphene oxide doping of structural, optical, dielectric and thermal properties of BaCO3:ZnO nanocrystals synthesized by solgel combustion method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 3833-3841.	3.6	1
81	Physical chemistry and functional materials: 2019. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 3817-3819.	3.6	0
82	Fe ve Ti katkÄ±lÄ± Ä±ft FazlÄ± Kalsiyum FosfatlarÄ±n Sentez ve Karakterizasyonu. <i>TÄ¼rk DoÄŸa Ve Fen Dergisi</i> , 2021, 10, 89-94.	0.5	0
83	An experimental and theoretical investigation of Co-containing hydroxyapatites prepared at different temperatures. <i>Journal of the Australian Ceramic Society</i> , 0, , .	1.9	0
84	NiO Takviyeli Mn KatkÄ±lÄ± Hidroksiapatit Kompozitlerinin Sentez ve Karakterizasyonu. <i>International Journal of Innovative Engineering Applications</i> , 0, , .	0.4	0
85	Ab Initio Study on Dopant Relaxation Mechanism in Ti and Ce Cationically Substituted in Wurtzite Gallium Nitride. <i>Materials</i> , 2022, 15, 3599.	2.9	0